INSTITUTE OF PETROLEUM

REVIEW

Honorary Editor:
E. B. EVANS, M.Sc., PH.D., F.R.I.C.

Honorary Associate Editor:
D. L. SAMUEL, B.Sc., A.R.I.C.

Editor:
GEORGE SELL

VOLUME FOURTEEN
1960

THE INSTITUTE OF PETROLEUM
61 NEW CAVENDISH STREET
LONDON, W.1

CONTENTS

PAGE

Safety Again Discussed at Stanlow ... 1
Canadian Petroleum Refining ... 3
Around the Branches ... 4, 40, 77, 116, 144, 190, 222, 287, 320, 362, 397
W. H. Thomas Retires from BP ... 9
The Oil Industries Club ... 10
National Iranian Oil Co. Operations... ... 11
Personal Notes ... 11, 42, 80, 118, 148, 182, 218, 251, 288, 322, 363, 402
Assam Crude Oil Pipeline Project ... 16
The Hartley Hoister Equipment for Tanker Offshore Loading ... 18
Technical Advances due to Influence of Oil ... 20
Lobitos' New Refinery Laboratory ... 22
Petroleum in Parliament ... 23, 98, 147, 208, 274, 347
World Tanker Statistics Third Quarter 1959 ... 24
Iran's New Crude Oil Terminal ... 33
Standardization Committee. *By* F. L. Garton ... 48
Oil Industry Corrosion Problems ... 52
U.K. Consumption of Petroleum Products ... 53
New Year Honours ... 53
Stamps and the Oil Industry. *By* A. G. K. Leonard ... 54
The World's Ultimate Petroleum Reserves 57
World Petroleum Statistics 1958 ... 58
Additives for Lubricants. *By* G. H. Thornley (Part I) ... 69
Institute Awards ... 74
World Oil Production in 1959 ... 87
The Kuwait Dinner ... 88
Petroleum Trade of the United Kingdom in 1959 91
Standardization Chairman Retires ... 94
World Tanker Fleets ... 95
Llandarcy Refinery's New Laboratory ... 96
Scottish Petroleum Consumption (Jan–Sept 1959) 97
The Annual Dinner ... 105
Castrol House Opened ... 110
Additives for Lubricants. *By* G. H. Thornley (Part II) ... 112
Garages and Motor Spirit Prices In Britain ... 119
Oil Storage at Dagenham ... 128
Movement of Crude Petroleum in International Trade 1959 ... 131
World Tanker Statistics Fourth Quarter 1959 ... 134
Energy Policy of the U.S.S.R. *By* V. Safronchook ... 141
U.S. and Canadian Reserves of Liquid Hydrocarbons ... 143
Australian Oil Concessions ... 156
Oil in the Economy of Iran ... 158
World Crude Oil Reserves ... 159
Gas Injection Scheme for Kuwait ... 160
BP Firemaster Shows its Paces ... 162
World Tanker Launchings in 1959 ... 164
The Elliott-Automation Valve Group of Companies ... 168
Review of the Year 1959. *By* D. E. Mitchell ... 177
Symposia at IP Branches ... 184
Oil Search in the Persian Gulf ... 192
Oilfields: Past, Present, and Future. *By* R. H. W. Hamilton ... 194
U.K. Oil Consumption Increase of 17 per cent in 1959 ... 200
Automatic Control at a Distribution Installation ... 203
Birmingham Students' Dinner ... 204
Saharan and Libyan Oil. *By* F. E. Wellings ... 213
IP Council and Officers 1960-61 ... 220
Iranian Oil Development in 1959 ... 227
British Petroleum Company's 1959 Operations ... 228
The Testing of Aviation Fuel Filters ... 232
Mobil Oil Co's Ellesmere Port Terminal ... 234
Aramco Operations in 1959 ... 236
World Tanker Statistics First Quarter 1960 ... 237

CONTENTS (continued)

PAGE

Fuel Efficiency and Power for Industry ... 239
Planning for Productivity in the Oil Industry ... 245
Problems Involved in the Design of Hydrodesulphurization Processes. *By* J. J. Darley ... 252
The Royal Dutch/Shell Group in 1959 ... 255
Road Car Loading Installation at Thames Haven. *By* A. E. Crisp and K. A. Spencer ... 258
The Iranian Consortium in 1959 ... 261
Investigations into the Qualities of TML Additive ... 266
World Petroleum Congress ... 266
Esso Technical Sales Department ... 268
Large Rise in U.K. Quarterly Consumption ... 271
Shell's Tranmere Terminal Inaugurated ... 272
Petrofina Operations in 1959 ... 274
Australian Oil Search ... 276
An Introduction to the Free-Piston Engine. *By* R. M. Hosie and K. A. Troth ... 281
Profits and Petroleum Refining ... 291
The World Oil Industry in 1959 ... 292
IP Council ... 293
Technical Education in the Soviet Union. *By* Professor H. Levy ... 300
Esso's Technical Sales Department ... 301
New Refinery Building at Ardrossan... ... 302
Oil Companies Invited to Join Oil Search in India ... 306
Warren Spring Laboratory ... 307
The New Bluebird Attempt on the Land Speed Record ... 308
World Tanker Statistics Second Quarter 1960 ... 310
First Pipes and Pipelines Exhibition 312
The History of Trinidad Oil. *By* Dr A. L. Down 317
U.K. Consumption First Half of 1960 ... 319
World Petroleum Statistics 1959 ... 324
The Ownership of World Refinery Capacity ... 334
The Outlook for International Air Transport. *By* S. Wheatcroft ... 336
Iraq Oil Operations in 1959 ... 341
New Shell Refinery Opened in the Ruhr ... 342
Correspondence—Petroleum History ... 343
U.K. Petroleum Statistics ... 344
Opening of Petrofina House ... 346
Geophysics To-day. *By* Prof. J. McG. Bruckshaw ... 353
Possible Improvements in Drilling. *By* H. D. Fanshawe 357
ASTM Annual Meeting 1960 ... 364
Shell Institute in Germany ... 365
Petroleum Research in Belgium ... 366
A Realistic View of the Economic Situation ... 374
The Oil Industry's Economic Progress ... 375
Twenty-Three Years Search in Nigeria ... 376
Automatic Recording and Invoicing ... 377
The CBMPE Dinner ... 378
Australian Oil Search ... 379
The 1960 Farnborough ... 382
Analysis of World Tanker Carrying Capacity ... 383
Scottish Petroleum Consumption ... 383
Advances in Well Logging. *By* P. Threadgold ... 389
Partial Removal of H_2S from Crude Oil by Stripping with Natural Gas. *By* T. R. Shipster ... 393
Institute of Petroleum Awards ... 396
Oil on Show to Students ... 398
Esso Nederland Refinery ... 400
Britain's Largest Tanker Launched ... 403
Retirement of Professor Garner ... 404
Petrofina's New Bulk Depot ... 410
New Distillation Pilot Plant for Birmingham University ... 412
World Tanker Statistics Third Quarter 1960 ... 413
Combustion Research by BP ... 416
Electrical Power in England ... 419

PAGE
239
245
252
255
258
261
266
266
268
271
272
274
276
281
291
292
293
300
301
302
306
307
308
310
312
317
319
324
334
336
341
342
343
344
346
353
357
364
365
366
374
375
376
377
378
379
382
383
383
389
393
396
398
400
403
404
410
412
413
416
419